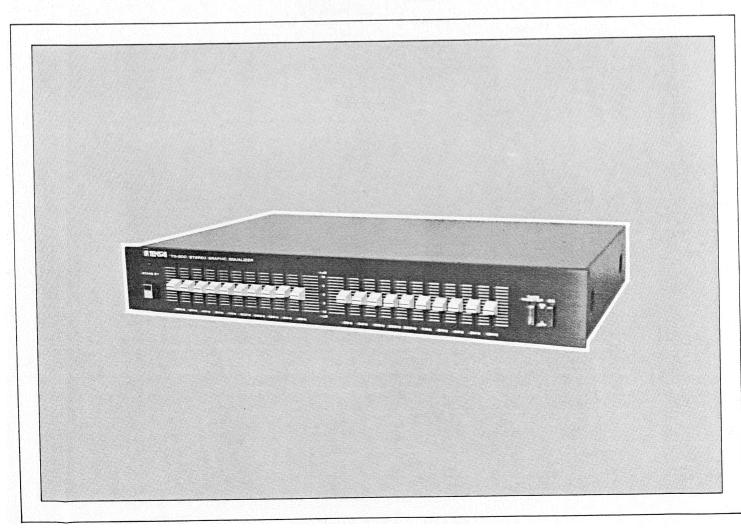
## Service Manual

Stereo Graphic Equalizer Amplifier

**MODEL TQ-200** 





## **SPECIFIACTIONS**

Input Sensitivity

: 1V

Input Impedance Output Impedance

: >47k ohms : <1k ohm

Control Range

: ±12dB

Control Frequency

: 32 Hz, 64 Hz, 125 Hz, 250 Hz, 500 Hz,

1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz

S/N Ratio

>100 dB

Frequency Response

<10 Hz ~ >65 kHz

Distortion

<0.02%

Power Supply

200-240 V ~, 50 Hz

Dimensions (WxHxD)

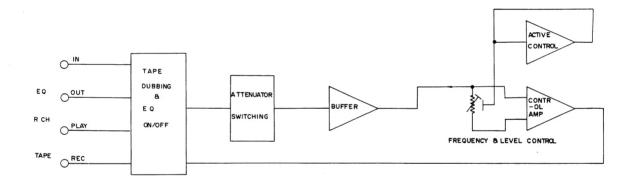
430 x 60 x 284 mm

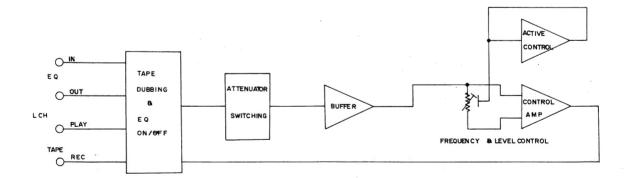
Weight

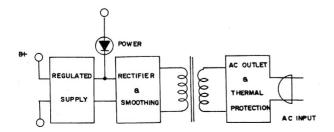
3.75 kg approx.

- Subject to change without notice. -

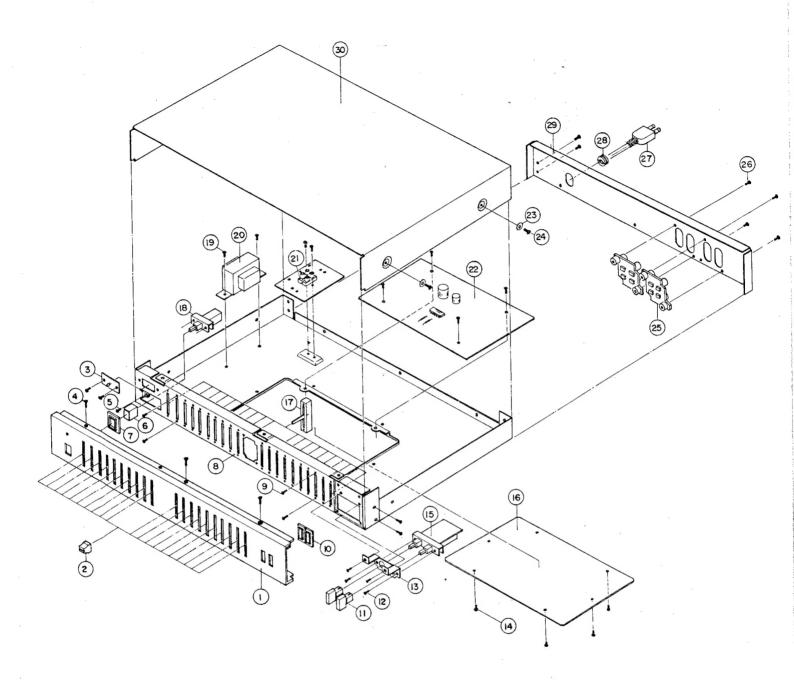
## **BLOCK DIAGRAM**





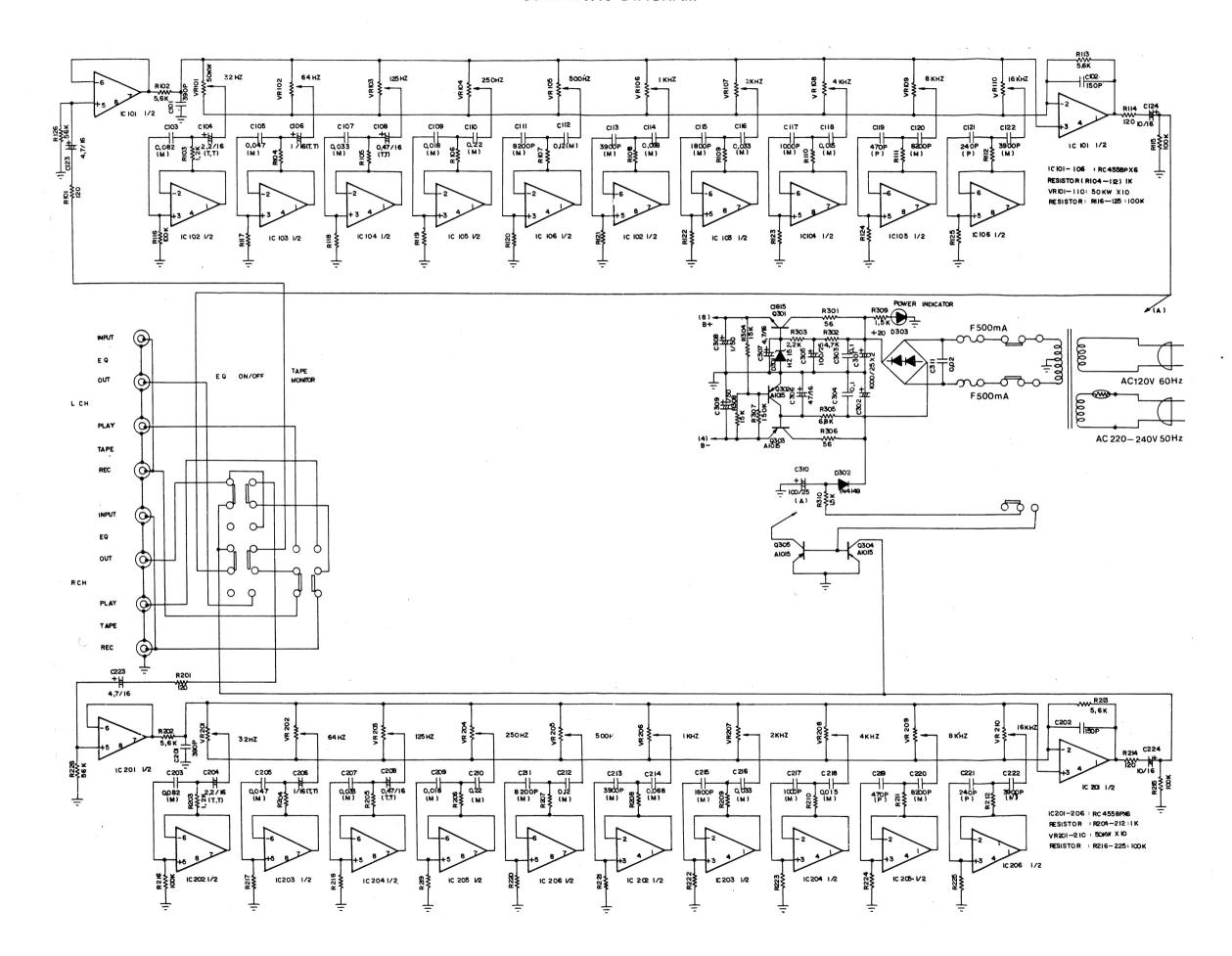


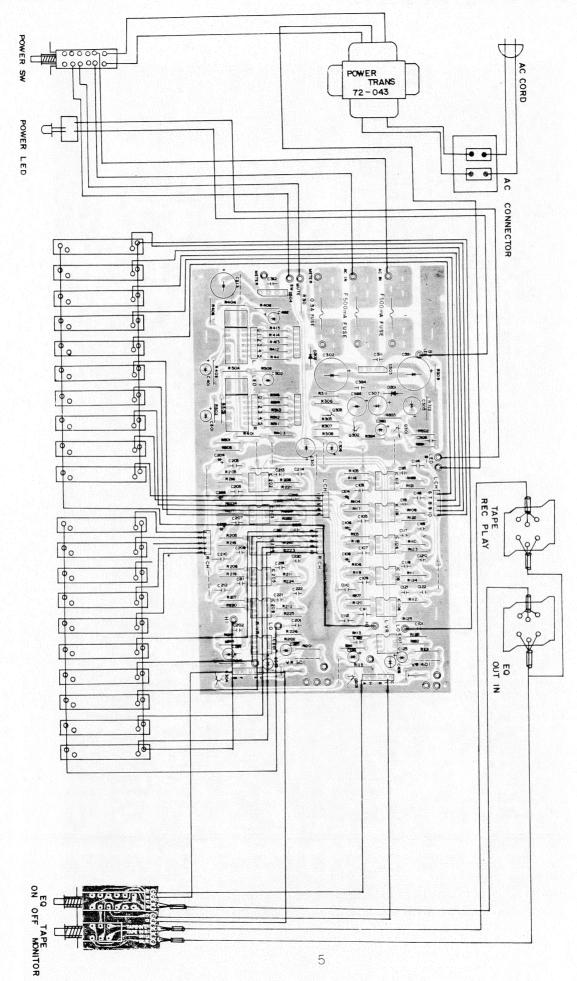
## EXPLODED VIEW AND PARTS LISTS

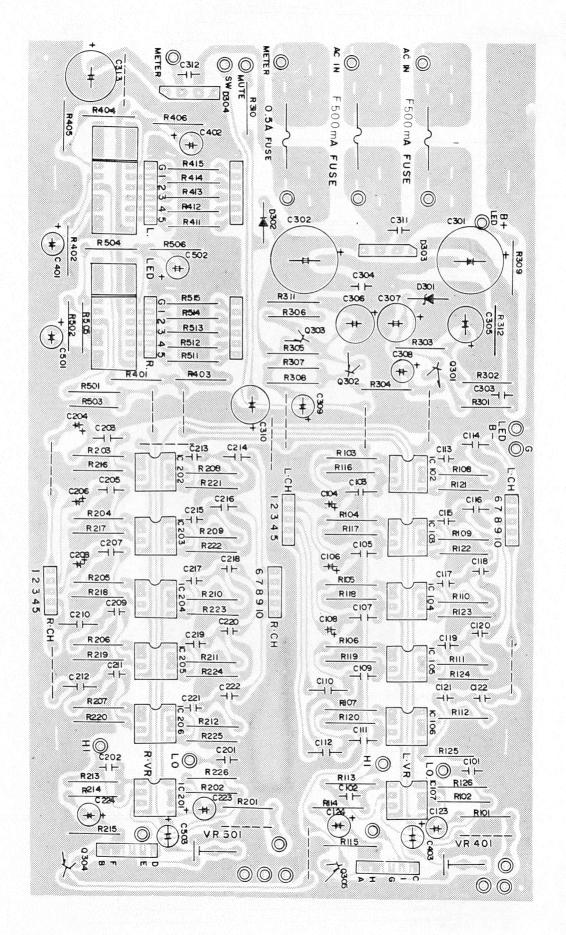


No.	Discription	Q'ty
1	Front Panel	· 1
2	Slide Knob	20
2	LED P.C Board	1
4	Screw $\phi$ 3x8 Tapping Flat H/D	6
5	Screw M3x0.5x6 Machine P/H	2
6	Power Knob	1
7	Power Bezel	1
8	Main Chassis	1
9	Screw M2x0.4x4 Machine P/H	40
10	Push Bezel	2
11	Push Knob	2
12	Screw M3x0.5x6 Machine P/H	2
13	Push Switch Bracket	1
14	Screw φ3x6 Tapping P/H	1
15	Push Switch	2

No.	Description	Q'ty
16	Bottom Cover	1
17	Slide Potention Meter	20
18	Power Switch	1
19	Screw M4x0.7x8 Machine W/Nut	2,
20	Power Transformer	1
21	A/C Connector	1
22	Main P.C Board	1
23	Fiber Washer	4
24	Screw M4x0.7x8 Truss H/P Silver	4
25	RCA Jack 4P	2
26	Screw $\phi$ 3x8 Tapping P/H Black	11
27	AC Cord	1
28	AC Cord Stopper	1
29	Back Chassis	1
30	Steel Cabinet	1







SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION
R101	120 ohm ±5% ¼W		C101	390pF
R102	5.6K ohm ±5% ¼W		C102	150pF
R103	1.2K ohm ±5% ¼W		C103	0.082µF/50V (Mylar)
R104	1.2K ohm ±5% ¼W		C104	2.2μF/16V (TagTantalum
R105	1.2K ohm ±5% ¼W		C105	0.047µF/50V (M)
R106	1.2K ohm ±5% ¼W		C106	1μF/16V (T.T)
R107	1.2K ohm ±5% ¼W		C107	0.033µF/50V (M)
R108	1.2K ohm ±5% ¼W		C108	0.47μF/16V (T.T) 0.018μF/50V (M)
R109	1.2K ohm ±5% ¼W		C109	0.018µF/50V (M)
R110	1.2K ohm ±5% ¼W		C110	8200pF/50V (M)
R111	1.2K ohm ±5% ¼W		C111	0.12µF/50V (M)
R112	1.2K ohm ±5% ¼W		C112	3900pF/50V (M)
R113	5.6K ±5% ¼W		C113	0.068µF/50V (M)
R114	120 ±5% ¼W		C114	1800pF/50V (M)
R115	100K ±5% ¼W		C115 C116	0.033µF/50V (M)
R116	100K ±5% ¼W		C117	1000pF/50V (M)
R117	100K ±5% ¼W		C118	0.015µF/50V (M)
R118	100K ±5% ¼W	1	C119	470pF (Polyester)
R119	1001	1.	C120	8200pF/50V (M)
R120			C120	240pF (P)
R121	-04 44141		C121	3900pF/50V (M)
R122			C123	4.7µF/16V
R123		1	C124	10μF/16V
R124	100K ±5% ¼W 100K ±5% ¼W		C201	390pF
R125	56K ±5% ¼W	1	C202	150pF
R126 R201	120 ohm ±5% ¼W	Ì	C203	0.082µF/50V (M)
R201	5.6K ohm ±5% ¼W		C204	2.2µF/16V (T.T)
R203	1.2K ±5% ¼W		C205	0.047µF/50V (M)
R204	1.2K ±5% ¼W	- 1	C206	1μF/16V (T.T)
R205	1.2K ±5% ¼W		C207	0.033µF/50V (M)
R206	1.2K ±5% ¼W		C208	0.47µF/16V (T.T)
R207	1.2K ±5% ¼W		C209	0.018µF/50V (M)
R208	1.2K ±5% ¼W	İ	C210	0.22µF/50V (M)
R209	1.2K ±5% ¼W	İ	C211	8200pF/50V (M)
R210	1.2K ohm ±5% ¼W	1	C212	0.12μF/50V (M)
R211	1.2K ohm ±5% ¼W		C213	3900pF/50V (M) 0.068µF/50V (M)
R212	1.2K ohm ±5% ¼W		C214	1800pF/50V (M)
R213	5.6K ±5% ¼W		C215	0.033µF/50V (M)
R214	120 ±5% ¼W		C216	1000pF/50V (M)
R215		1	C217 C218	0.015µF/50V (M)
R216		-	C218	470pF (P)
R217			C220	8200pF/50V (M)
R218	FOV 1/18/		C221	240pF (P)
R219	= 0/ 1/1A	1	C222	3900pF/50V (M)
R221	50/ 1/10/		C223	4.7µF/16V
R222	40016	1	C224	10μF/16V
R223	E0/ 1/1A	1	C301	1000μF/25V
R224	1		C302	1000μF/25V
R225		·	C303	
R226		'	C304	0.1µF
R30	0/ 1/18	<i>!</i>	C305	
R30	E 0/ 1/16	<i>i</i>	C306	
R30	3 2.2K ±5% ¼V		C307	
R30	4   15K ±5% ¼V		C308	
R30	5 6.8K ±5% ¼V		C309	
R30	En/ 1/1		C310	
R30	- 1 = 0/ 1/1		C311	0.02µF
R30	- FO/ 1/1		IC101	RC4558P
R30			1010	
R31	0   1.5K ±5% 1/4	•	1 1 .5.6	

SYMBOL	DESCRIPTION
IC103 †C104 IC105 IC106 IC201 IC202 IC203 IC204 IC205 IC206	RC4558P RC4558P RC4558P RC4558P RC4558P RC4558P RC4558P RC4558P RC4558P
D301 D302 D303	Zener Hz15 1N4149 DBA10B
Q301 Q302 Q303 Q304 Q305	C1815 A1015 A1015 A1015 A1015
VR101 VR102 VR103 VR104 VR105 VR106 VR107 VR109 VR110 VR201 VR202 VR203 VR204 VR205 VR206 VR208 VR208 VR208 VR208 VR208	50KW 50KW 50KW 50KW 50KW